



This map shows the textures of surficial sediments in the quadrangle, independent of interpretations regarding their origin. For example, poorly sorted sediments deposited directly from glacial ice are shown here as "diamicton," although they may be

genetically classified as "till." The symbols listed below indicate materials observed in borrow pits and other surface exposures, as well as subsurface data from various sources. Where more than one textural class is present, materials are separated by commas and listed in decreasing order of abundance (e.g. s, st, cy). Individual materials may occur in distinct layers, or they may be mixed. Hyphens show the ranges of particle sizes present where their relative abundances are uncertain (e.g. st-c). Slash marks indicate superposition of materials; thicknesses are in feet (e.g. 10s/3cy). "Σ" indicates a significant stratigraphic sequence of interbedded materials. Some borrow pits and other localities may be designated by numbers that refer to descriptions in the quadrangle text. Not all symbols will necessarily be found on the map.

GRAVEL g Undifferentiated gravel, used as a general term. Can be

subdivided by size as follows: >256 mm (10") Boulder gravel

Cobble gravel 64-256 mm (2.5-10") Pebble gravel 2-64 mm (0.1-2.5")

MIXED UNITS gs Gravelly sand (this is a special case for sand with lesser amounts of intermixed gravel, i.e. pebbly sand, cobbly sand, or bouldery sand)

sg Sand and gravel (used only to describe slumped face or other site where relative abundances of sand vs. gravel are unknown).

Undifferentiated sand, used as a general term. Can be subdivided

by size as follows: **vcs** Very coarse sand (1-2 mm) **cs** Coarse sand (0.5-1 mm)(0.25-0.5 mm) **ms** Medium sand (0.125-0.25 mm) **fs** Fine sand

SAND

(0.0625-0.125 mm) **vfs** Very fine sand SILT st Silt (0.002-0.0625 mm) CLAY cy Clay (<0.002 mm)

DIAMICTON

ORGANIC

OTHER

Undifferentiated diamicton (poorly-sorted sediment in which particle sizes may range from clay to boulders). Used as a general

- term or subdivided as follows: dg Gravelly-matrix diamicton
- **ds** Sandy-matrix diamicton dt Silty-matrix diamicton dy Clayey-matrix diamicton

Note: Diamictons of glacial origin may be classified as one of the following varieties of till (shown on the map in parentheses):

- t Till, undifferentiated. Usually of late Wisconsinan age
- (deposited by the last glacial ice sheet). Ablation till. Deposited during retreat of the late Wisconsinan ice sheet. Typically sandy, stony, and not
- Lodgement till. Inferred to have been deposited at the
- base of the late Wisconsinan ice sheet. Usually very
- Flowtill. Deposited by slumping adjacent to glacial ice. Variably weathered till (usually a lodgment facies) of

og Organic-rich sediment (can be any organic material, including **MATERIALS**

forest litter, wood, shells, etc.)

inferred pre-late Wisconsinan age.

- **pt** Peat (reserved for actual fibrous peat)
- **af** Artificial fill (e.g. road fills, building sites, dumps) **bd** Scattered boulders; interpreted as till where followed by (t)
 - Bedrock (observed in pit floor, boring, or natural exposure) Rottenstone, disintegrated or weathered bedrock, saprolite,

Unknown (material unidentified)

Refusal (in test boring or well) Fossiliferous (used to indicate fossiliferous units within a **© 8s-b** Materials data from shovel hole, hand-auger hole, natural exposure, or excavation

- (other than borrow pit). Depth to bedrock from well (≥ is used to indicate minimum depth to bedrock), in feet below land surface
- Bedrock well
- Drilled overburden well
- Driven point
- **★** 20fs,st Observation well with materials data Test boring with materials data ♦ 10gs/rk
- Borrow pit, recently active at time of mapping, with materials data.
- Borrow pit, evidently abandoned or in long disuse at time of mapping, with materials data.
- X Location of site for which a data sheet is on file at the Maine Geological Survey.
- Depth to bedrock from seismic line, in feet below land surface
- Bedrock outcrop

OTHER SOURCES OF INFORMATION

- 1. Genes, A. N., 1980, Reconnaissance surficial geology of the Ashland 15' quadrangle, Maine: Maine Geological Survey, Open-File Map 80-6.
- 2. Neil, C. D. (compiler), 2002, Significant sand and gravel aquifers in the Ashland quadrangle, Maine: Maine Geological Survey, Open-File Map 02-104.
- 3. Thompson, W. B., 1979, Surficial geology handbook for coastal Maine: Maine Geological Survey, 68 p. (out of print)
- 4. Thompson, W. B., and Borns, H. W., Jr., 1985, Surficial geologic map of Maine: Maine Geological Survey, scale 1:500,000.